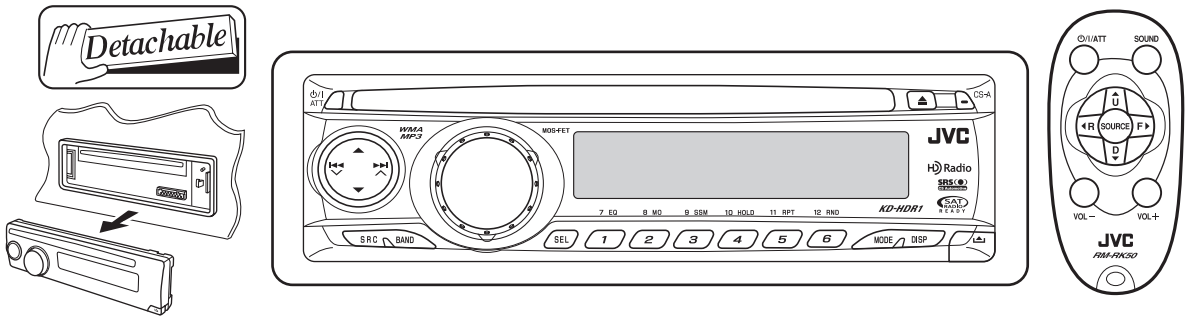
JVC

SCHEMATIC DIAGRAMS

CD RECEIVER

KD-HDR1J

CD-ROM No.SML200603



Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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No.MA251SCH
2006/3

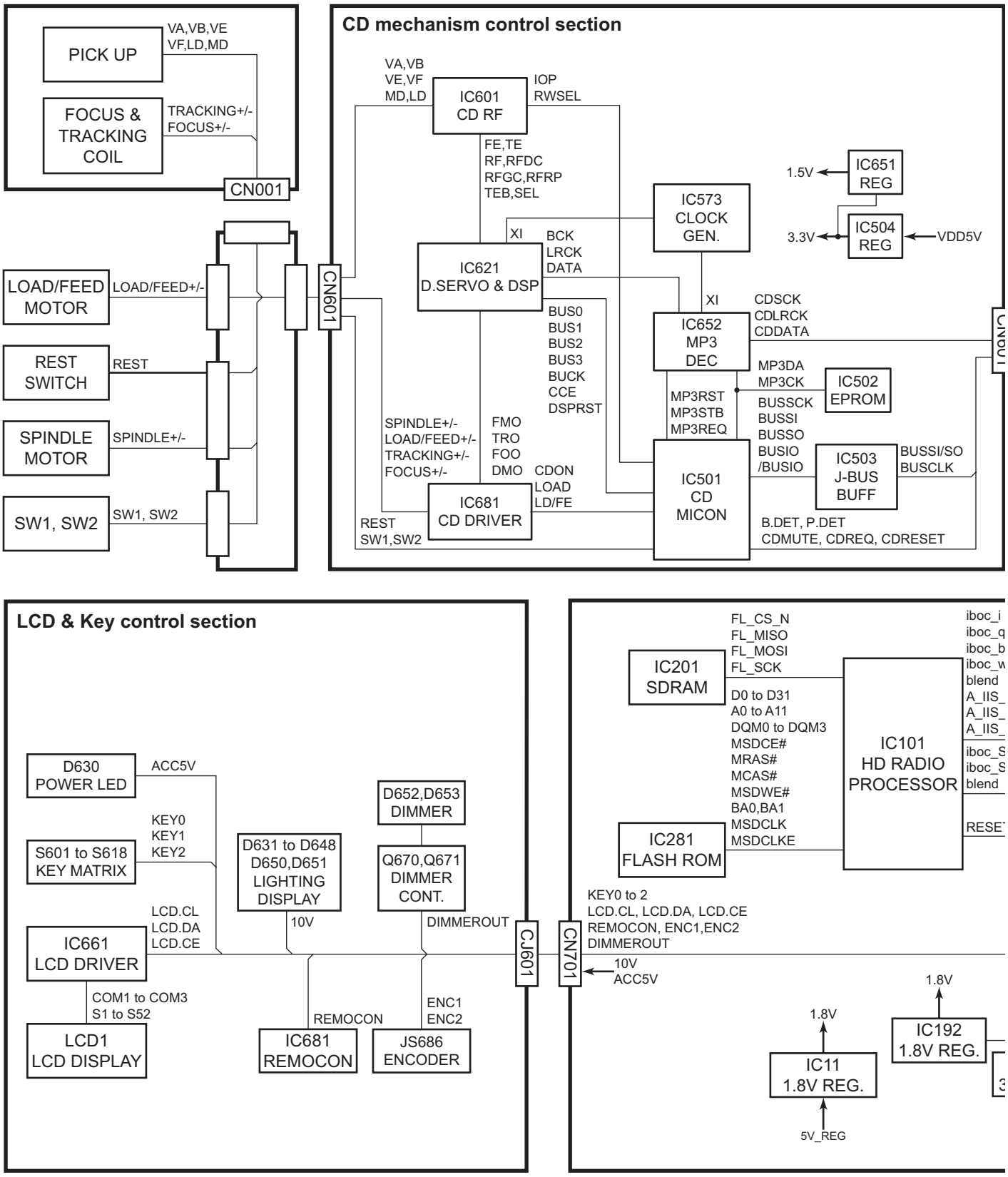
Safety precaution

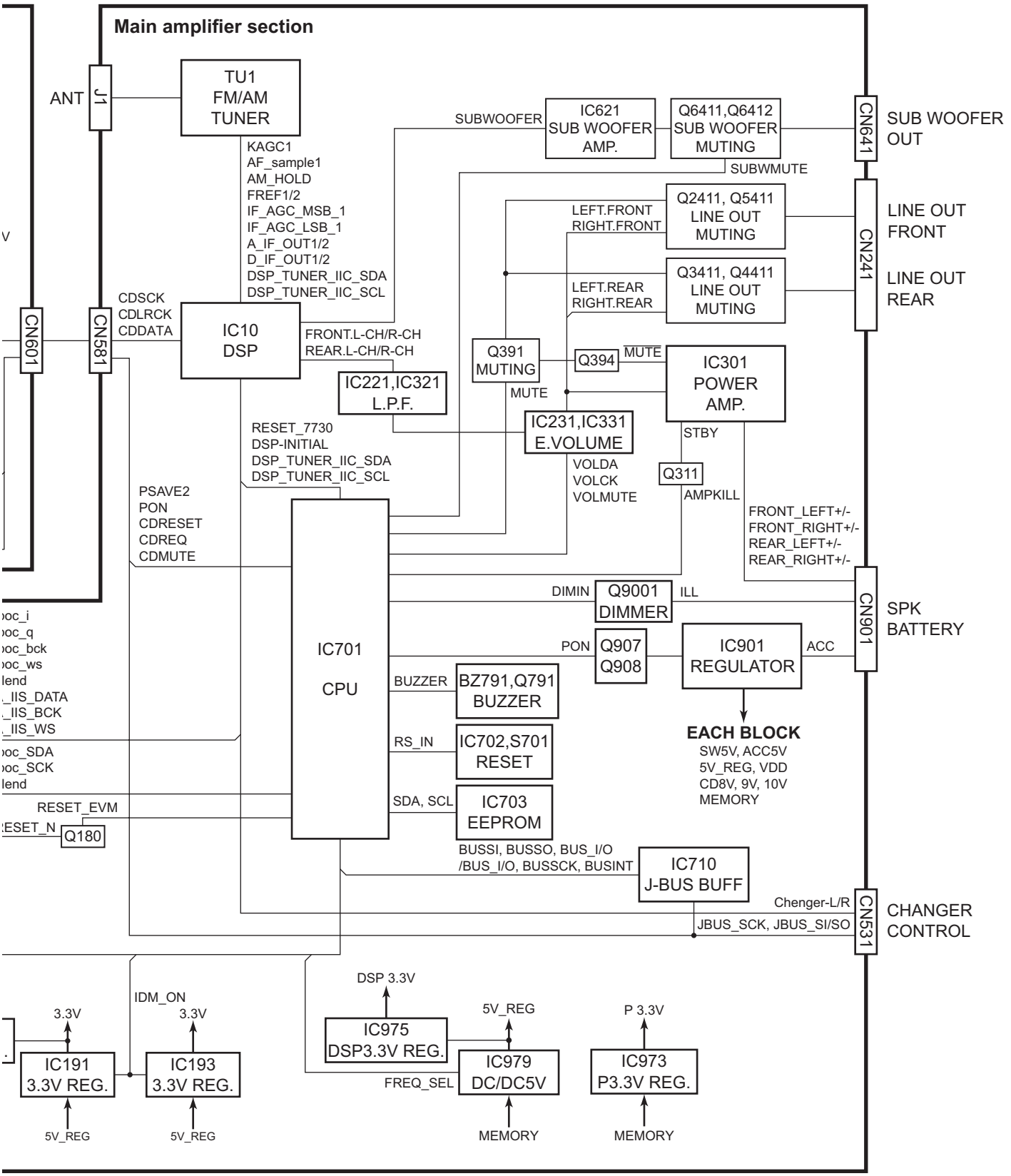
⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

< MEMO >

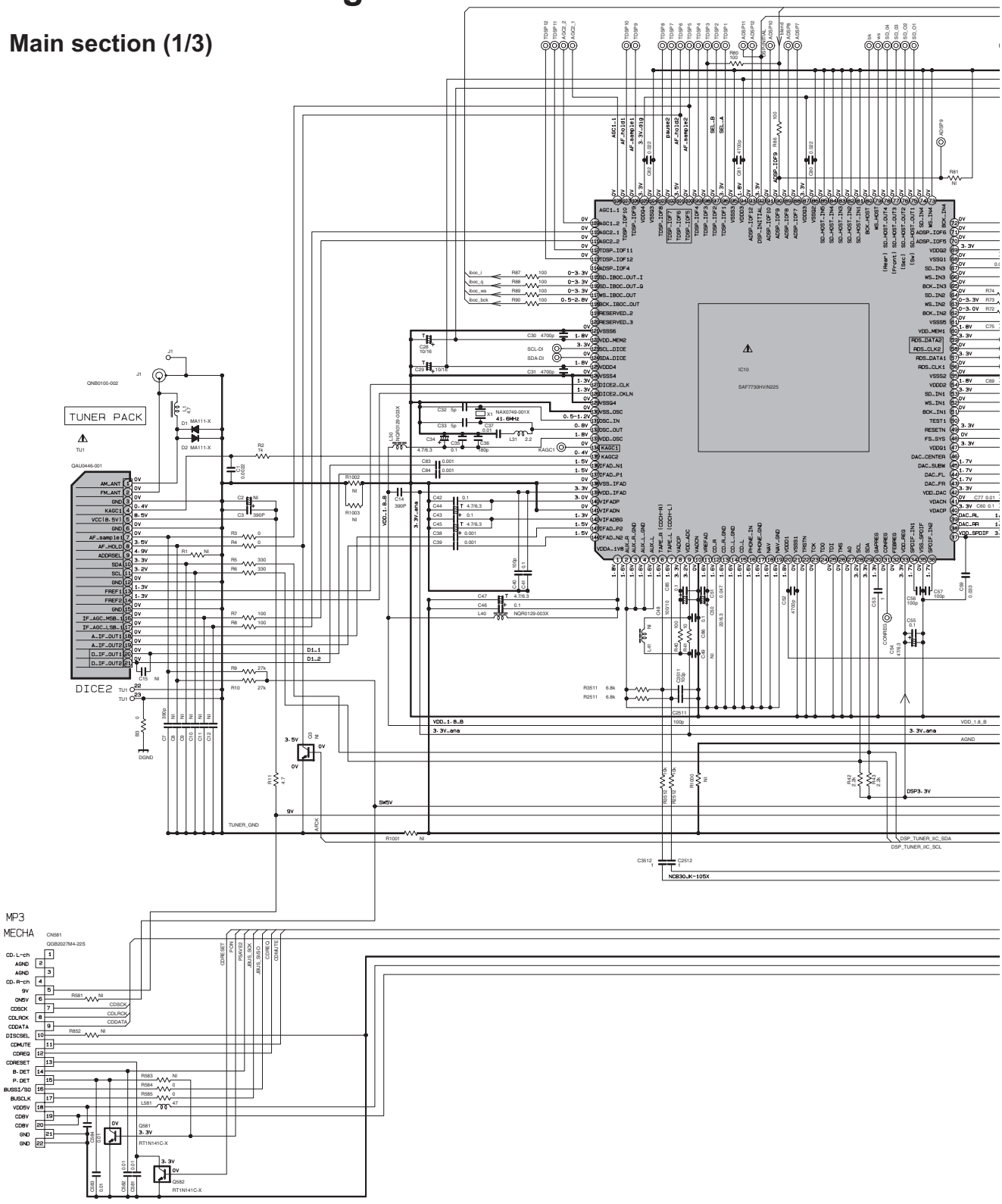
Block diagram



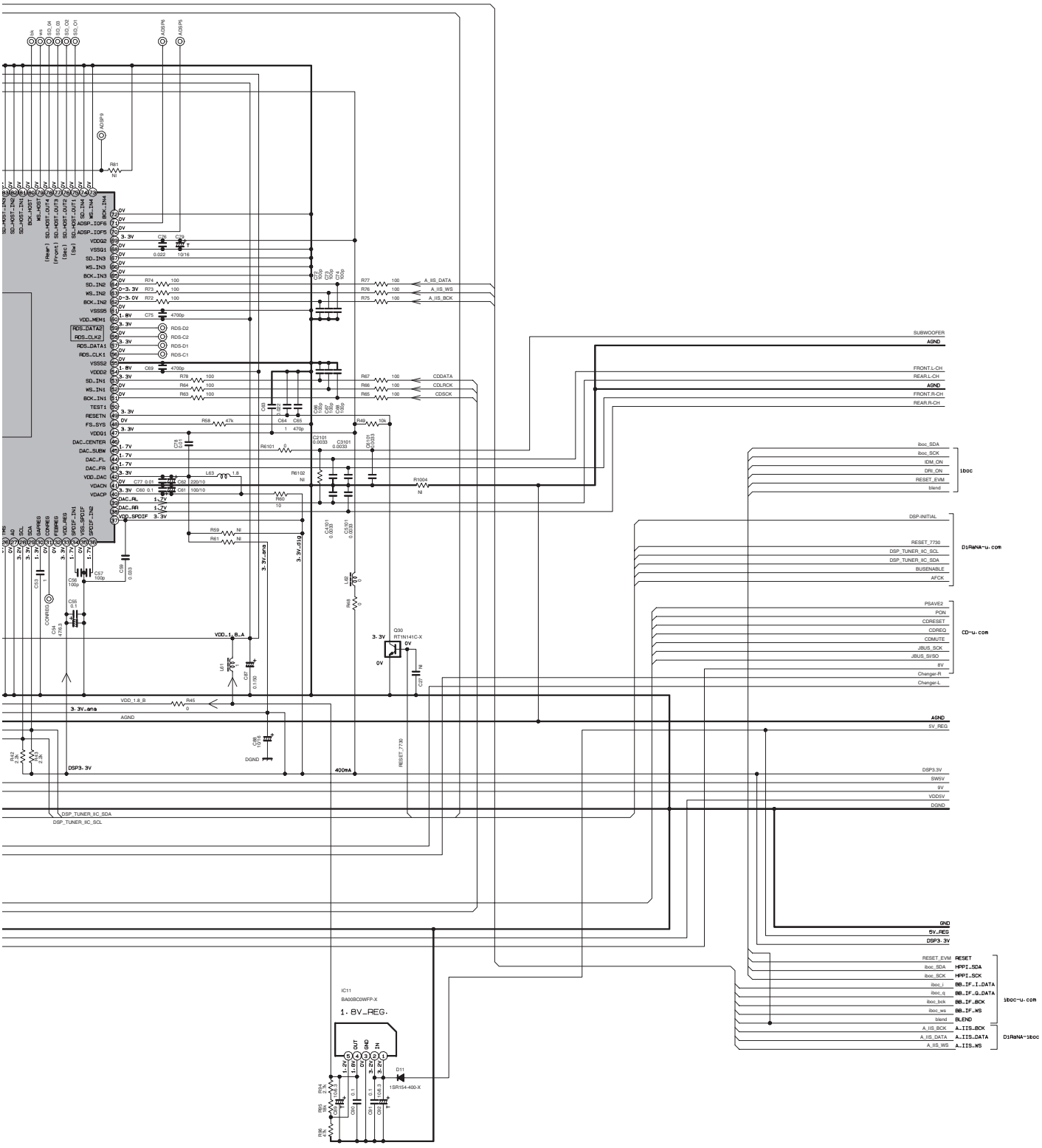

Main amplifier section
ANT
J1
TU1
FM/AM
TUNER
KAGC1
AF_sample1
AM_HOLD
FREF1/2
IF_AGC_MSB_1
IF_AGC_LSB_1
A_IF_OUT1/2
D_IF_OUT1/2
DSP_TUNER_IIC_SDA
DSP_TUNER_IIC_SCL
SUBWOOFER
IC621
SUB WOOFER
AMP.
Q6411,Q6412
SUB WOOFER
MUTING
CN641
SUB WOOFER
OUT
SUBWMUTE
LEFT.FRONT
RIGHT.FRONT
Q2411, Q5411
LINE OUT
MUTING
CN241
LINE OUT
FRONT
LEFT.REAR
RIGHT.REAR
Q3411, Q4411
LINE OUT
MUTING
LINE OUT
REAR
CN601
CN581
CDSCK
CDLRCK
CDDATA
IC10
DSP
FRONT.L-CH/R-CH
REAR.L-CH/R-CH
Q391
MUTING
Q394
MUTE
IC301
POWER
AMP.
MUTE
IC221,IC321
L.P.F.
IC231,IC331
E.VOLUME
STBY
RESET_7730
DSP-INITIAL
DSP_TUNER_IIC_SDA
DSP_TUNER_IIC_SCL
VOLDA
VOLCK
VOLMUTE
Q311
AMPKILL
PSAVE2
PON
CDRESET
CDREQ
CDMUTE
FRONT_LEFT+/-
FRONT_RIGHT+/-
REAR_LEFT+/-
REAR_RIGHT+/-
DIMIN
Q9001
DIMMER
ILL
CN901
SPK
BATTERY
IC701
CPU
PON
Q907
Q908
IC901
REGULATOR
ACC
BUZZER
BZ791,Q791
BUZZER
EACH BLOCK
SW5V, ACC5V
5V_REG, VDD
CD8V, 9V, 10V
MEMORY
RS_IN
IC702,S701
RESET
SDA, SCL
IC703
EEPROM
RESET_EVM
Q180
BUSSI, BUSSO, BUS_I/O
/BUS_I/O, BUSSCK, BUSINT
IC710
J-BUS BUFF
Chenger-L/R
JBUS_SCK, JBUS_SI/SO
CN531
CHANGER
CONTROL
IDM_ON
3.3V
3.3V
IC191
3.3V REG.
IC193
3.3V REG.
5V_REG
5V_REG
DSP 3.3V
IC975
DSP3.3V REG.
5V_REG
IC979
DC/DC5V
FREQ_SEL
MEMORY
P 3.3V
IC973
P3.3V REG.
MEMORY

Standard schematic diagrams

■ Main section (1/3)



⚠ Parts are safety assurance par
When replacing those parts ma
sure to use the specified one.



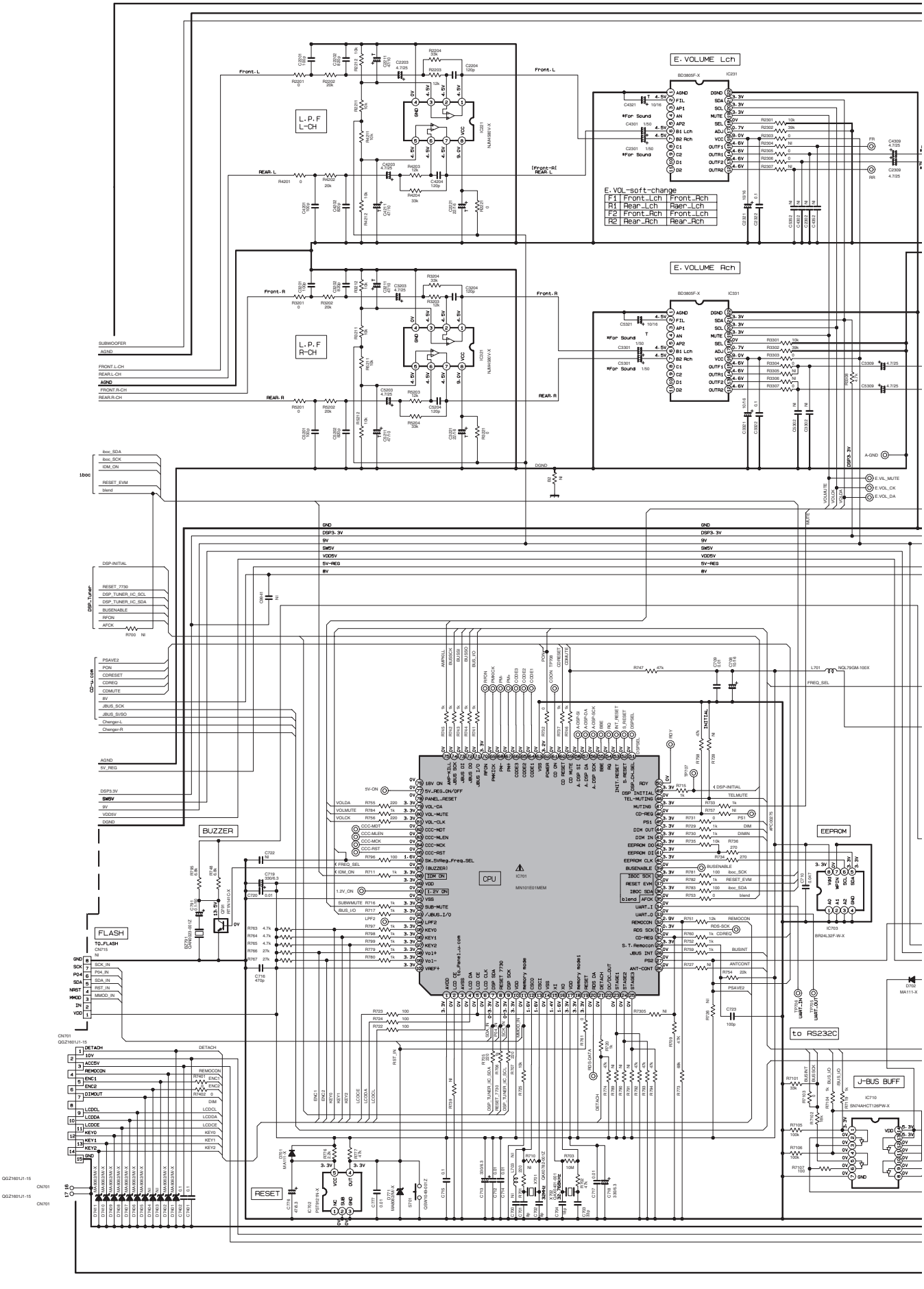
e safety assurance parts.
placing those parts make
ıse the specified one.

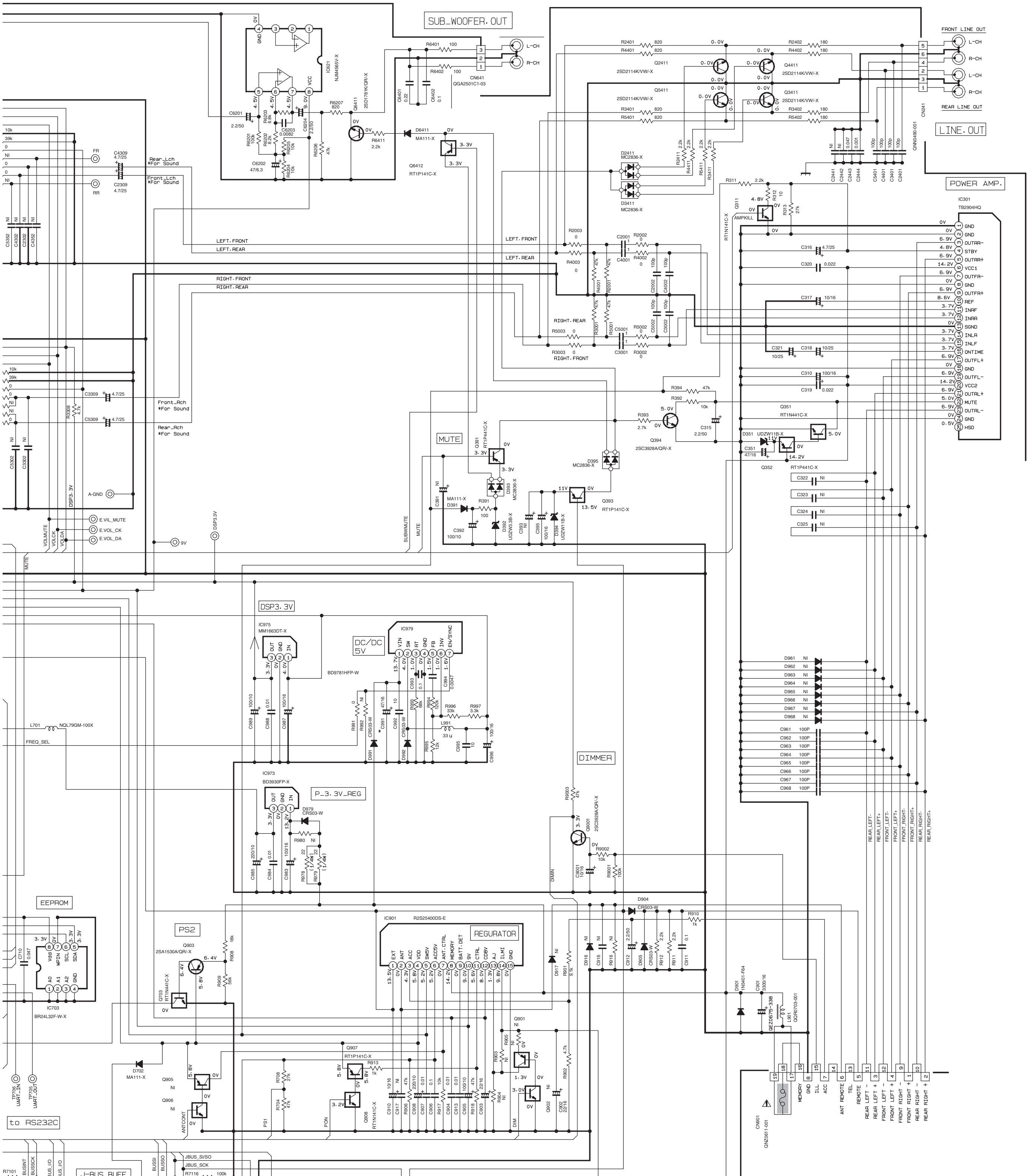
	10k / 10k	RT1N141C-X
	47k / 47k	RT1N441C-X
	10k / 10k	RT1P141C-X
	47k / 47k	RT1P441C-X

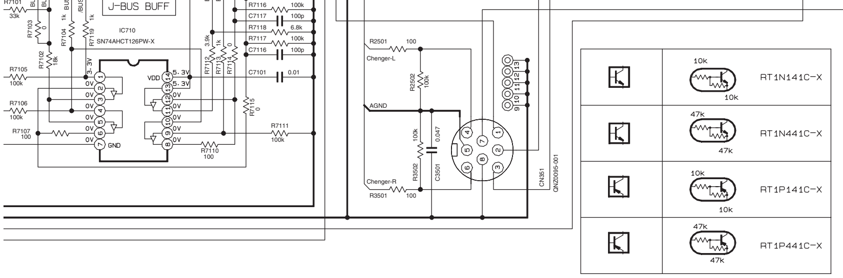
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION --- CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W OR 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V OR 16V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) /RATED VOLTAGE (V).
3. NI STANDS FOR NOT MOUNTED PARTS.

■ Main section (2/3)




SUB_WOOFER.OUT
IC621 NJM4565V-X
Q6411 2SD1781K/QR/-X
CN641 QGA2501C1-03
L-CH
R-CH
FRONT LINE OUT
REAR LINE OUT
LINE.OUT
CN241 QNN0490-001
Q2411 2SD2114K/VW/-X
Q4411 2SD2114K/VW/-X
Q5411 2SD2114K/VW/-X
Q3411 2SD2114K/VW/-X
D2411 MC2836-X
D3411 MC2836-X
POWER AMP.
IC301 TB2904HQ
GND
OUTRR-
STBY
OUTRR+
VCC1
OUTFR-
OUTFR+
REF
INRF
INRR
SGND
INLR
INLF
ONTIME
OUTFL+
OUTFL-
VCC2
OUTRL+
MUTE
OUTRL-
HSD
Q311 RT1N141C-X
AMPKILL
Q351 RT1N441C-X
Q352 RT1P441C-X
Q394 2SC3928A/QR/-X
Q393 RT1P141C-X
Q391 RT1P441C-X
Q6412 RT1P141C-X
MUTE
LEFT.FRONT
LEFT.REAR
RIGHT.FRONT
RIGHT.REAR
Rear_Lch *For Sound
Front_Lch *For Sound
Front_Rch *For Sound
Rear_Rch *For Sound
A-GND
E.VIL_MUTE
E.VOL_CK
E.VOL_DA
DSP3.3V
IC975 MM1663DT-X
DC/DC 5V
IC979 BD9781HFP-W
IC973 BD3930FP-X
P_3.3V_REG
DIMMER
Q9001 2SC3928A/QR/-X
L701 NQL79GM-100X
FREQ_SEL
EEPROM
IC703 BR24L32F-W-X
PS2
Q903 2SA1530A/QR/-X
Q703 RT1N441C-X
IC901 R2S25400DS-E
REGURATOR
EXT
ANT
ACC
VDD
SW5V
ACC5V
ANT.CTRL
MEMORY
BATT.DET
9V
CTRL
CDBV
AJ
ILMI
Q907 RT1P141C-X
Q908 RT1N141C-X
Q901 NI
Q902 NI
D904 CRS03-W
D901 1N5401-F64
C901 3300/16
L901 QQR0703-001
QEZ0675-338
CN901 QNZ0611-001
MEMORY
GND
ILL
ACC
ANT REMOTE
TEL
REMOTE
REAR LEFT -
REAR LEFT +
FRONT LEFT -
FRONT LEFT +
FRONT RIGHT -
FRONT RIGHT +
REAR RIGHT -
REAR RIGHT +
REAR_LEFT-
REAR_LEFT+
FRONT_LEFT-
FRONT_LEFT+
FRONT_RIGHT-
FRONT_RIGHT+
REAR_RIGHT-
REAR_RIGHT+



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION --- CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W OR 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR.
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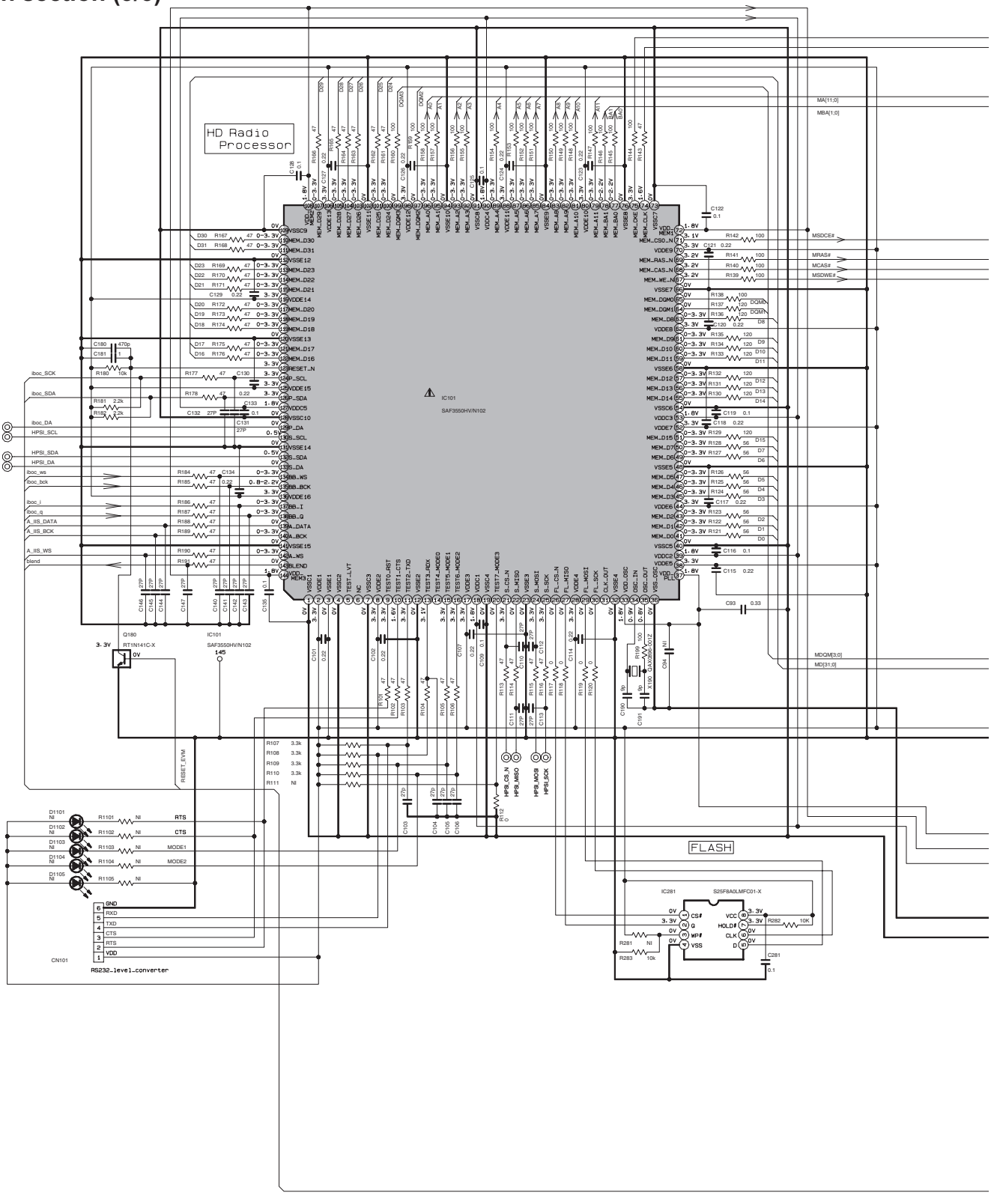
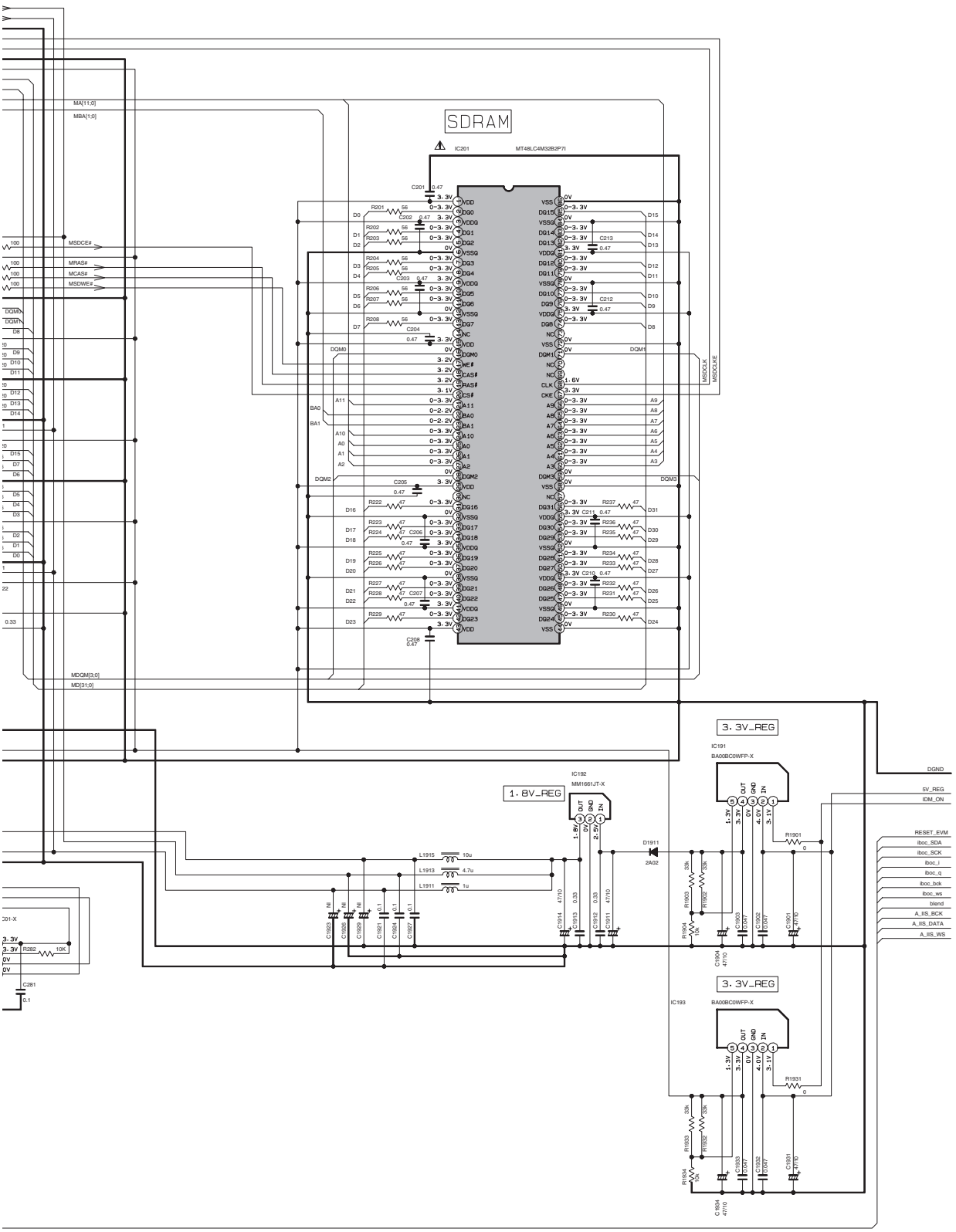
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
3. NI STANDS FOR NOT MOUNTED PARTS.

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

■ Main section (3/3)



⚠ Parts are sa
When replac
sure to use t



	10k / 10k	RT1N141C-X
	47k / 47k	RT1N441C-X
	10k / 10k	RT1P141C-X
	47k / 47k	RT1P441C-X

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

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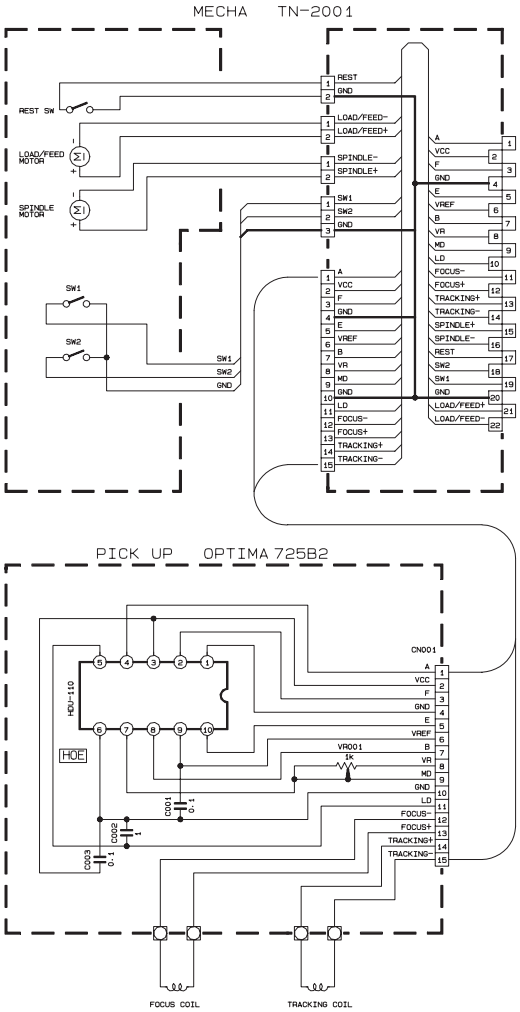
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
3. NI STANDS FOR NOT MOUNTED PARTS.

■ CD servo control section



	10k, 10k	UN2211
	47k, 47k	UN2213
	10k, 10k	UN2111
	47k, 47k	UN2113

NOTES

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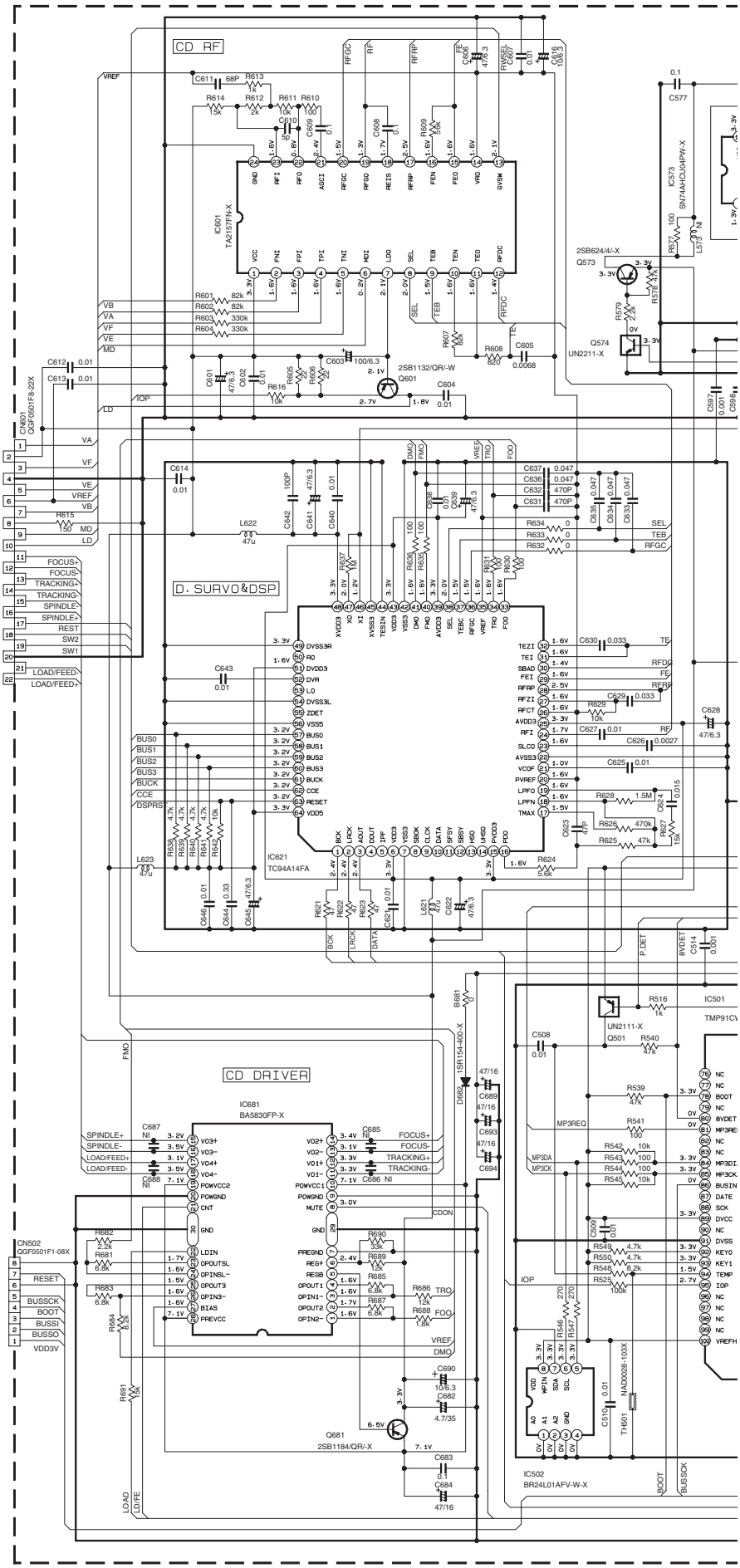
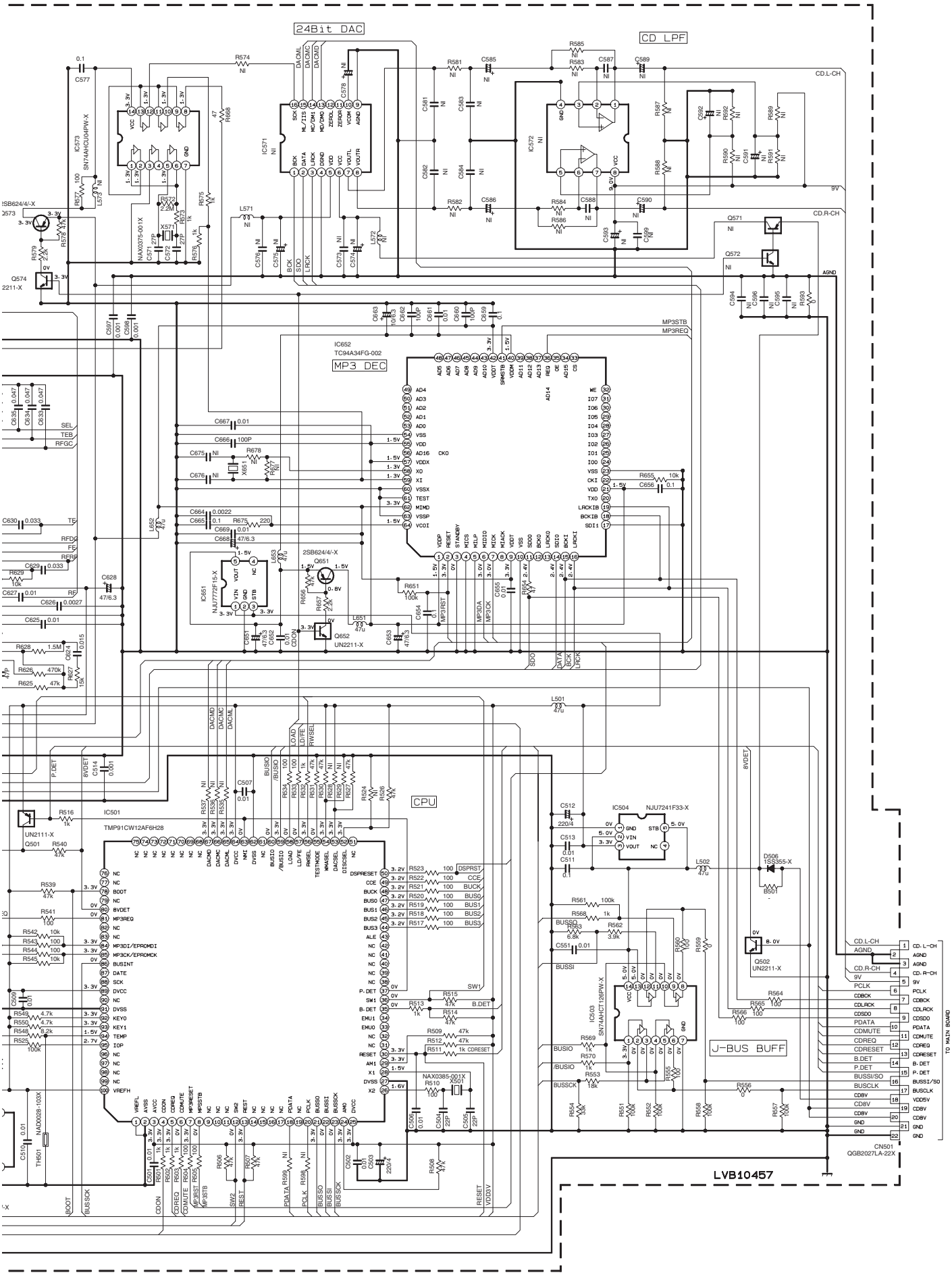
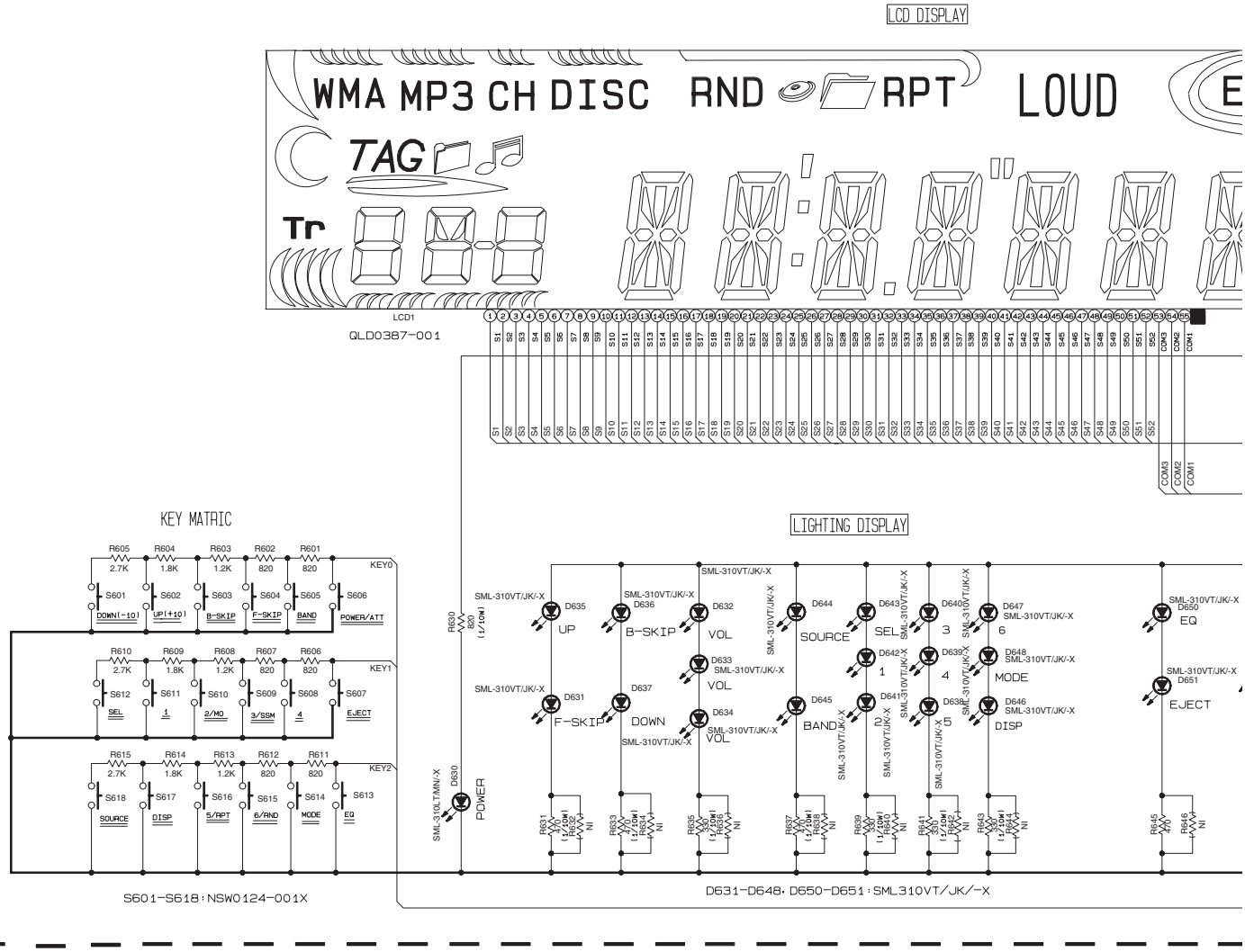
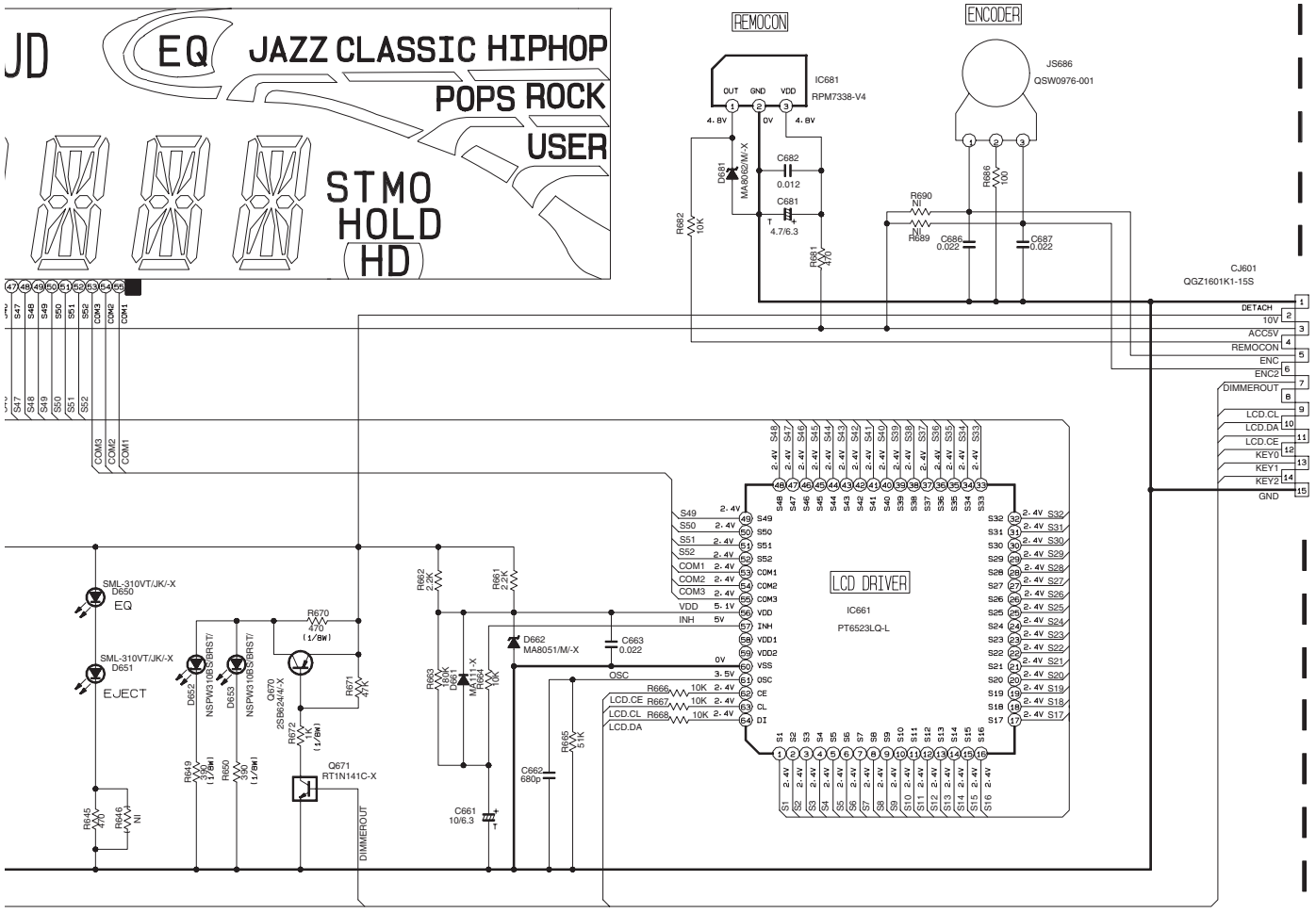



24Bit DAC
CD LPF
MP3 DEC
CPU
J-BUS BUFF
LVB10457
TO MAIN BOARD

■ LCD & Key control section



SW PWB : GEB10175A



	10K / 10K	RT1N141C-X

NOTES

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2. UNLESS OTHERWISE SPECIFIED.
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   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   T --- TANTAL CAPACITOR.

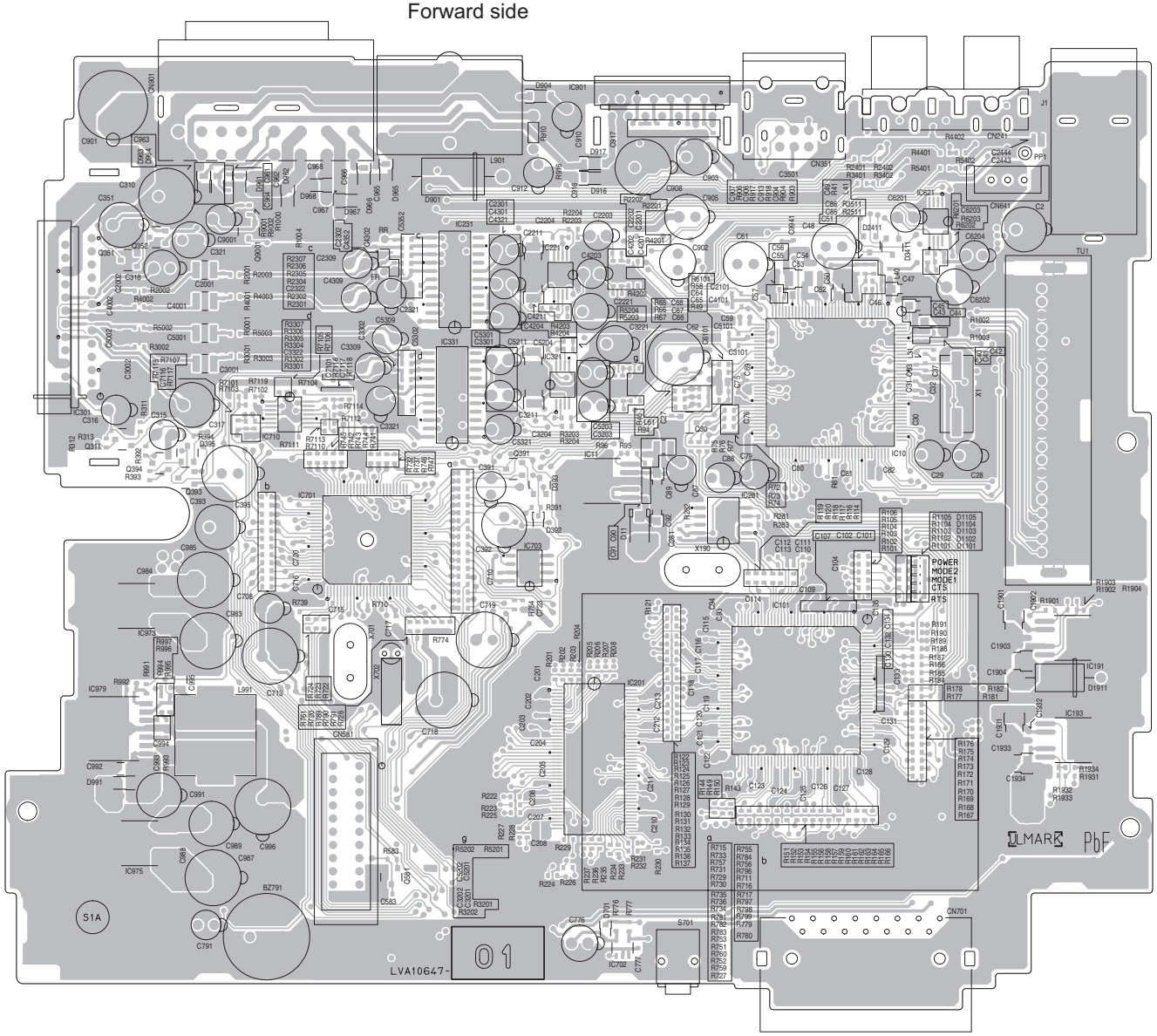
3. COMPONENTS IN ( ) INDICATE NOT USE.

Printed circuit boards

■ Main board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

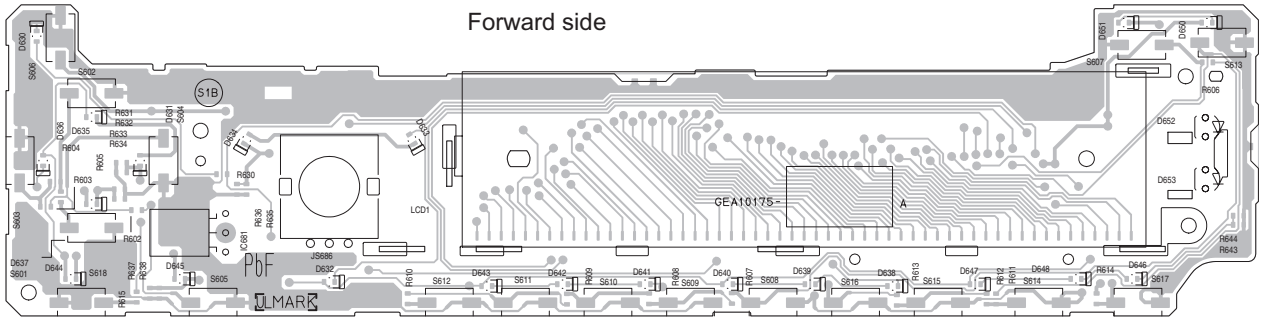
Forward side



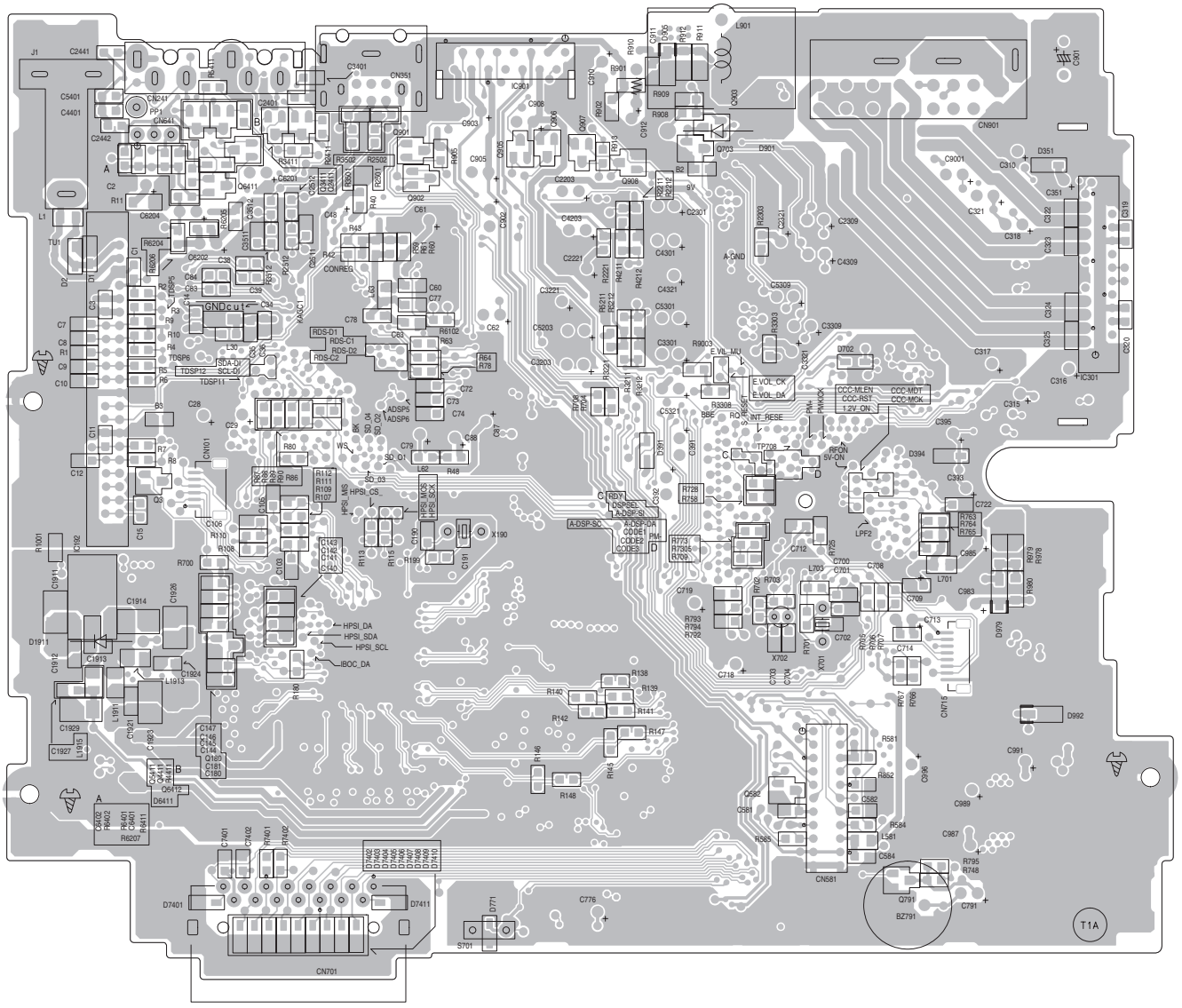
■ Switch board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

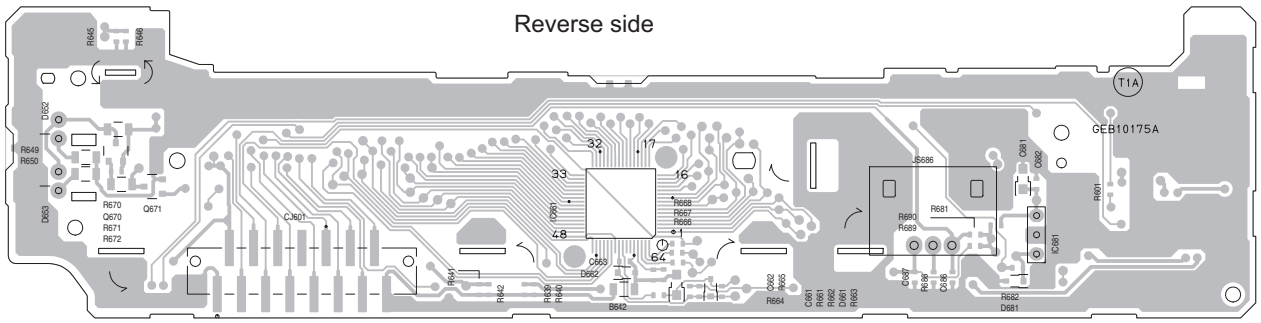
Forward side



Reverse side



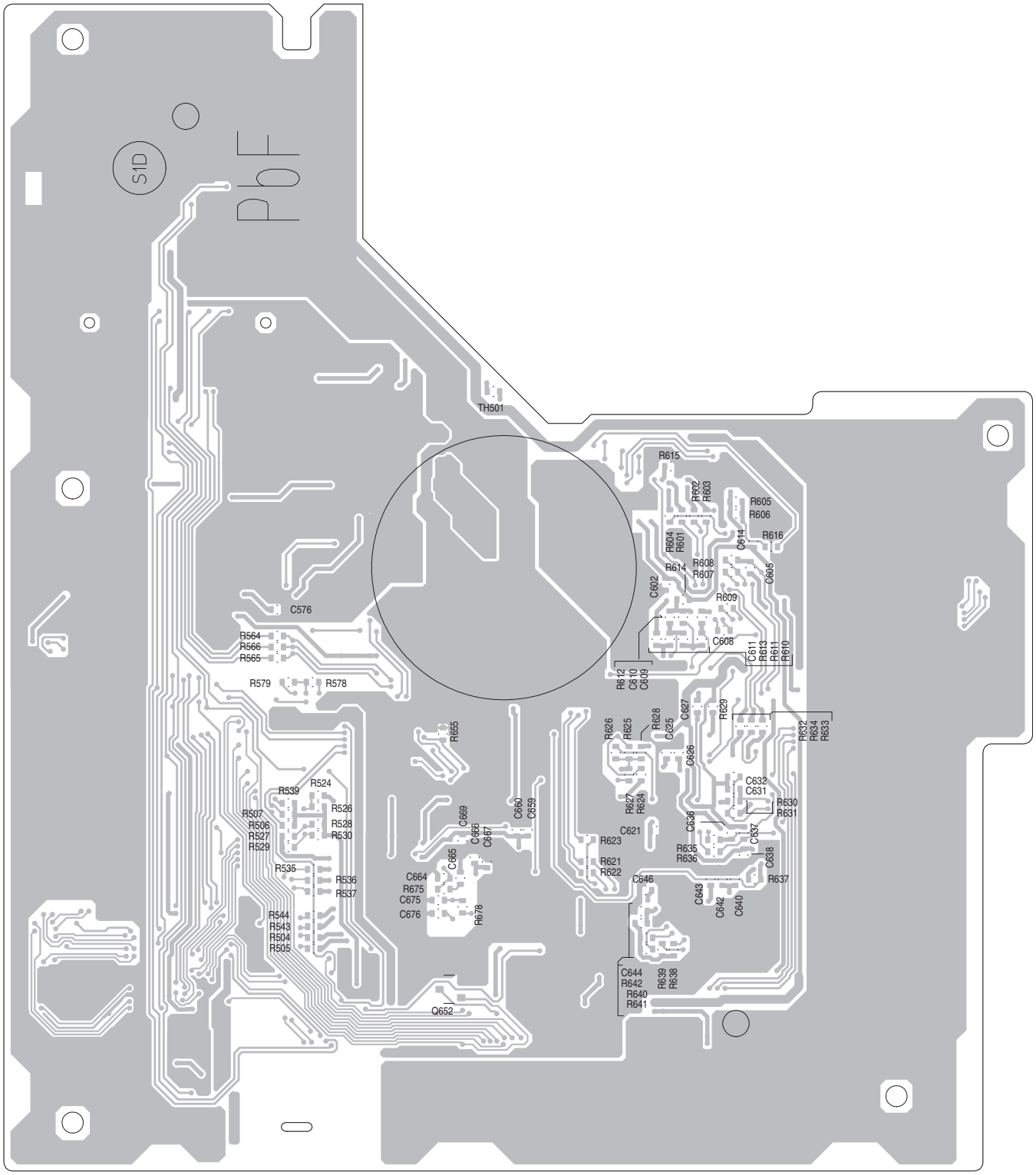
Reverse side



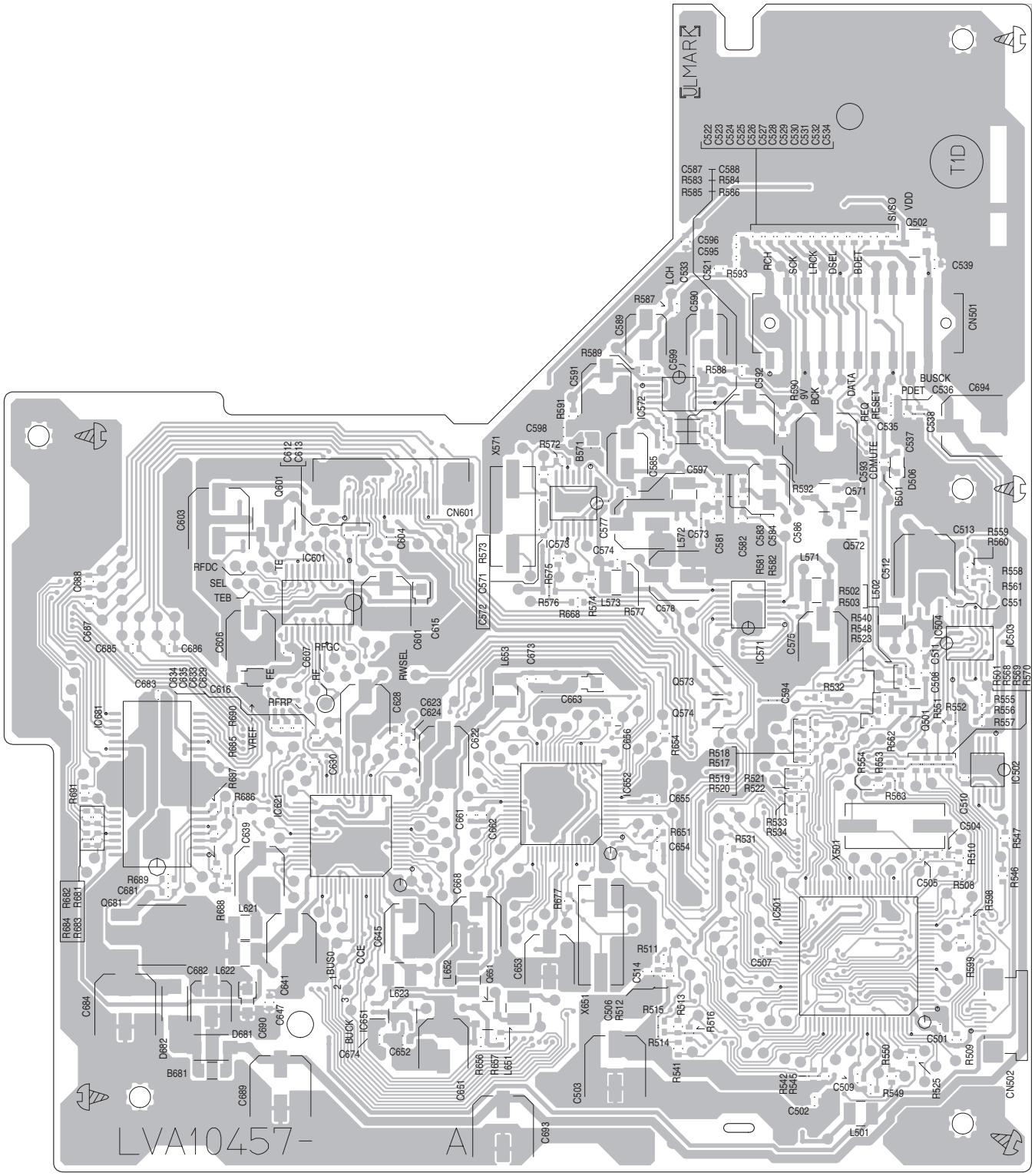
■ CD servo control board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Forward side



Reverse side



JVC

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(No.MA251SCH)

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